

APPENDIX B: REQUIREMENTS FOR STORM WATER MANAGEMENT PLAN (SWMP)

1000.. SITE CHARACTERISTIC INFORMATION TO BE INCLUDED IN THE STORM WATER MANAGEMENT PLAN.

1100. Pre-Development Conditions

1. The existing watersheds on the property, as well as up-gradient areas contributing to run-off to the property.
2. A description of all surface waters and wetlands on or adjacent to the site.
3. The location of the one hundred (100) year flood elevation as indicated on the map entitled "Flood Insurance Rate Map (FIRM), Town of Marion, revised February 17, 1988." If the waterbody or watercourse of the one hundred (100) year flood elevation is not indicated on the map, the elevation shall be calculated utilizing an appropriate methodology such as SCS Technical Report 55 or Technical Report 20 or HEC2.
4. The principal vegetation types sufficient to determine an appropriate curve number.
5. The topography described at two (2) foot intervals, with the areas of steep slopes over fifteen percent (15%) highlighted.
6. The soil types on the site and the hydrological soil groups based on the most recent Soil Conservation Service soils map of the site (available at the SCS office in Wareham).

1200. Post-Development Conditions

1. Changes in topography at two (2) foot intervals.
2. Areas where vegetation will be cleared or otherwise altered.
3. Areas that will be covered with impervious surfaces.
4. The proposed development layout, including:
 - a. locations of roadways, common parking areas, and undisturbed lands
 - b. locations of drainage systems and storm water treatment facilities
5. Areas to be utilized in overland flow, i.e., grass swales and filter strips, showing:
 - a. proposed vegetation
 - b. the soil susceptibility to erosion (using SCS classification)

2000. Water Quantity/Duration/Quality Information to be submitted in the SWMP.

2100. Pre-Development Conditions:

1. The flow path, peak discharge rate, and volume of the surface run-off for the existing conditions based on the two (2), ten (10), twenty-five (25), and one hundred (100) year twenty-four (24) hour storm event, using the SCS Technical Report 55 or Technical Report 20.
2. Identify areas of ponding and swamping.
3. Identify existing Massachusetts surface water quality classifications found in 310 CMR 4.04.

2200. Post-Development Conditions

1. The flow path, peak discharge rate, and volume of the surface run-off for the post-development conditions based on the two (2), ten (10), twenty-five (25), and one hundred (100) year twenty-four (24) hour storm event using SCS Technical Report 55 or Technical Report 20.
2. A discussion regarding whether the proposed storm water control systems meet or exceed the performance standards required by section IV(F): Drainage.
3. n evaluation of the pollutant removal efficiency of each proposed treatment facility or group of facilities.

3000. Storm Water Facility Plans and Maintenance Information to be Included in the SWMP.

The following information shall be included in the SWMP:

3100. All calculations, supporting data, and reference materials relating to the design and construction of flood control and pollution reduction storm water control systems. Calculations for volume control storm water control systems shall utilize SCS Technical Report 55 or Technical Report 20 methodology.

3200. A detailed description and designs of all proposed storm water control and treatment facilities, including:

1. Soil logs and appropriate soil analysis for each proposed storm water control system site (documentation should be for a minimum of four (4) feet below the bottom of the storm water control system.
2. Plans for discharge of contained waters, including storage time and discharge rate.
3. Maximum ground water levels at the proposed storm water control system locations.
4. Perked water table levels.
5. A description of existing and proposed outlet structures.

3300. Maintenance plans, including:

1. A maintenance schedule.
2. An outline of responsible parties and owners.
- 3 All pertinent agreements to be executed which guarantee proper maintenance.